The Department of Energy

And Electronics Stewardship:

Office of Health, Safety and Security

How DOE Attained "Green Status" on the OMB Environmental Scorecard

Federal Environmental Symposium

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DOE and the OMB Environmental Scorecard

OMB rates 23 federal agencies each January and July on Environmental Scorecard.

Agencies get stoplight ratings (red, yellow, green) for 5 key environmental categories: EMS, Green Buildings, Environmental Compliance, Green Purchasing, and Electronic Stewardship.

DOE was the first federal agency to receive a "Green Status" in Electronics Stewardship

Here's how DOE did it.

DOE and Electronics: Background

DOE is 4th largest purchaser of electronics hardware + services among federal civilian agencies.

DOE has 40+ major sites doing world class science, nuclear defense programs, energy security, & environmental remediation.

DOE M&O contactors operate sites under federal oversight with high level of independence & decentralized purchasing. Directives must be incorporated into contracts. Not a command-and-control culture.

DOE jointly owns Energy Star program with EPA.

Strategies For Federal Leadership in Electronics Stewardship

1) **Be a Pioneer and Early Adopter**
   - Dedicate Staff and Gain Leadership Support;
   - Build Your Green Computing Team;
   - Develop a Field Involvement Plan.

2) **Integrated Lifecycle Management for Electronics**
   - EPEAT Procurement Requirements;
   - Energy Saving Power Management Operations;
   - Environmentally Safe Disposition of Surplus Electronics.

3) **Track and Record Data to Document Acquisition + Disposal Progress.**

4) **Seek Recognition for Achievement.**

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DOE Electronics Stewardship Leadership (Part 1)

- DOE signs MOU to join Federal Electronics Challenge (FEC) 11/04

- Dedicated staff assigned to Green Computing 2/05.

- Outreach and training: monthly agency environmental conference calls, property management conferences, IT conferences, meetings, newsletters, etc.

- DOE CIO memo encourages FEC participation and green purchasing, 6/05.

DOE Electronics Stewardship Leadership (Part 2)

- HQ organizes Green Computing Team: environmental, IT, procurement, and property management staff Summer 2005.
- Field involvement: 21 major DOE sites join FEC 2005-08, representing two-thirds of operations and personnel.
- Almost all DOE sites incorporate green electronics practices into Environmental Management Systems (EMS) 2007-08.

DOE Among Earliest EPEAT Adopters

- Revised Order 450.1 *Environmental Protection Program* requires green computer purchasing, expresses preference for EPEAT-registered products, promotes integration of electronics stewardship into EMS. 12/05

- CIO specifications make DOE HQ first major Federal facility to require EPEAT computers and monitors: Winter 2005-06.

- DOE Acquisition Letter requests sites implement EPEAT 3/06 – 3 months before EPEAT roll-out.

- DOE purchases 10K EPEAT computers first 3 months after EPEAT launch for $16M+.

DOE Greens IT Operations and End of Life Disposition

- Headquarters consolidates 17 IT offices into a single centralized IT operation: 2005-07

- CIO encourages computer life extension: Average CPU age exceeds four years by 2007 .

- DOE TEAM Energy Initiative requires sites reduce computing energy use, including data centers: Fall 2007.

- Headquarters and other sites adopt facility power management controls: 2006-08.

- ERRC promotes recycling and reuse among DOE property managers 2006-08.

DOE Tracks Procurement and Disposition

- DOE expands EO 13101 Pollution Prevention Tracking and Recording System to include FEC annual reporting questions, including EPEAT purchasing and green recycling data: FY06.

- DOE becomes first federal agency to accurately track EPEAT procurement + green disposition of surplus computers for entire agency: FY07

- FY07 DOE results: 95% EPEAT purchasing, 98% reuse and recycling of surplus computers, complying with EO 13423 requirements for 2010 three years early.

DOE Achievement in Electronics Stewardship

External and Internal Recognition:

- First White House Closing the Circle Award Winner for Electronic Stewardship

- Two-time Agency Award Winner: White House Electronics Reuse and Recycling Campaign

- 17 Facility Federal Electronics Challenge Awards: 2005-08

- 4 Facility Reuse + Recycling Awards 2007-087

- 2008 DOE CIO Managerial Excellence Award

Next Steps For Continuous Improvement in Green Computing

- Incorporate E.O.13423 electronics requirements into new revision of DOE Order 450.1 *Environmental Protection Program:* 5/2008.

- Strive to maintain 'Green Status' in OMB Scorecard and comply with EO 13423 2010 requirements. Actively share best practices with other agencies.

- DOE is committed to be first federal agency in total FEC Partnership including all major facilities: 2008-2009

- Pioneer in energy saving technology: eg. "Thin Client" computing and efficient data centers.

Building Your Electronics Stewardship Program

- Actively participate in FEC and its resources: teleconferences, training, conference meetings.

- Seek procurement and disposition training and technical assistance from FEC, EPA, OFEE, Green Electronics Council, other agencies.

- Organize your cross-functional Electronic Stewardship Team to include procurement, property management, and IT leadership.

- Build green computing strategies into EMS.

- Be a pioneer and early adopter. Seek recognition and awards from OFEE + FEC.

Contact Information

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